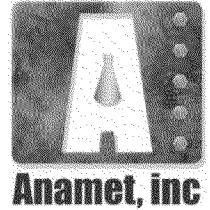


LABORATORY CERTIFICATE



August 19, 2013

LABORATORY NUMBER: 5004.9237
CUSTOMER AUTHORIZATION: Credit Card
DATE SUBMITTED: August 16, 2013
REPORT TO: Pacific Gas & Electric Co.
Attn: Redacted
375 North Wiget Lane, Ste. 250
Walnut Creek, CA 94598

SUBJECT:

One pipe section was submitted for tensile testing and metallurgical evaluation. The sample was identified as Pipe Segment from L147, 20" Diameter.

TRANSVERSE TENSILE TEST
(ASTM A370-10)

	<u>Weld Metal</u>	<u>Parent Metal</u>
Dimensions of Specimen (in.)		
Width	1.508	1.508
Thickness	0.257	0.254
Area (sq. in.)	0.388	0.383
Tensile Strength (psi)	58700	61800
Yield Strength (psi)*	42900	39300
Elongation in 2.0 Gage (%)	11	41
Fracture Location	Weld	-
Fracture Characteristic	Ductile**	-

*Upper Yield Strength (formerly Y.P.) 0.5% E.U.L.; **Indication observed

MACROTECH EXAMINATION

A cross section through the weld was polished and etched. Photographs of the weld are attached. The weld appears to be an A.O. Smith type weld.

26102 Eden Landing Road, Suite 3, Hayward, California 94545-3811 Phone: 510-887-8811 Fax: 510-887-8427
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Lab. No. 5004.9237

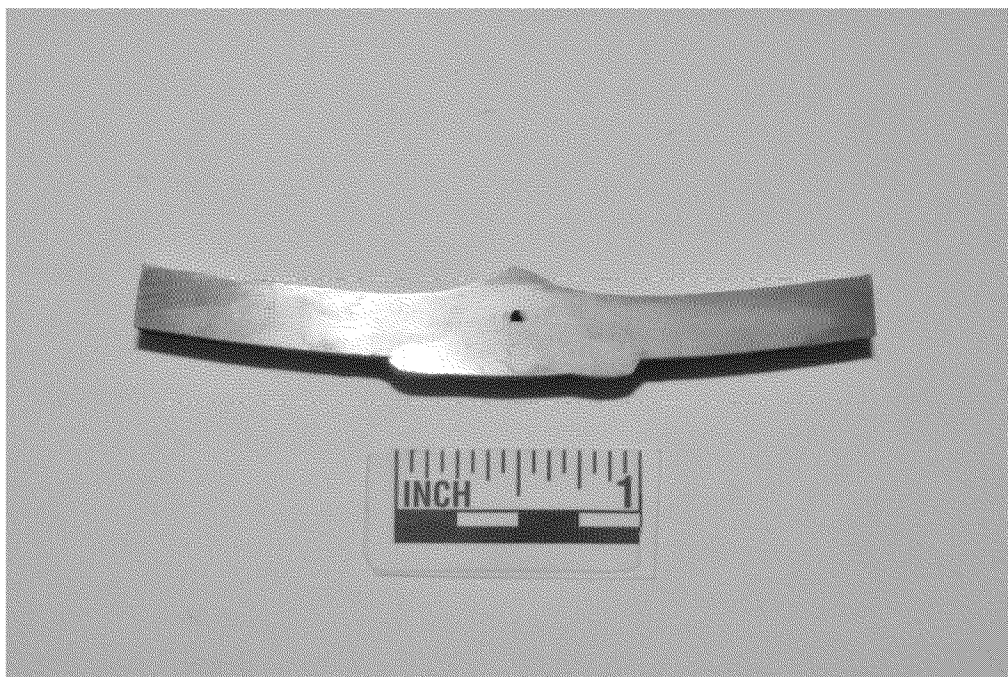


Photo #1

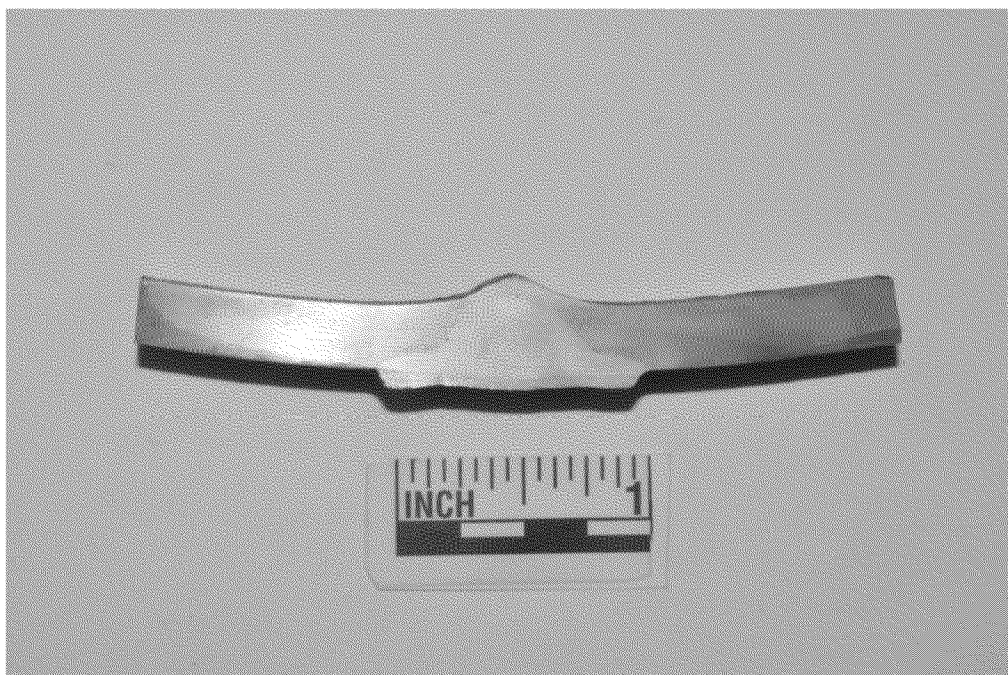
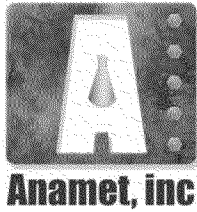


Photo #2, opposite side of Photo #1

LABORATORY CERTIFICATE



Lab. No. 5004.9237

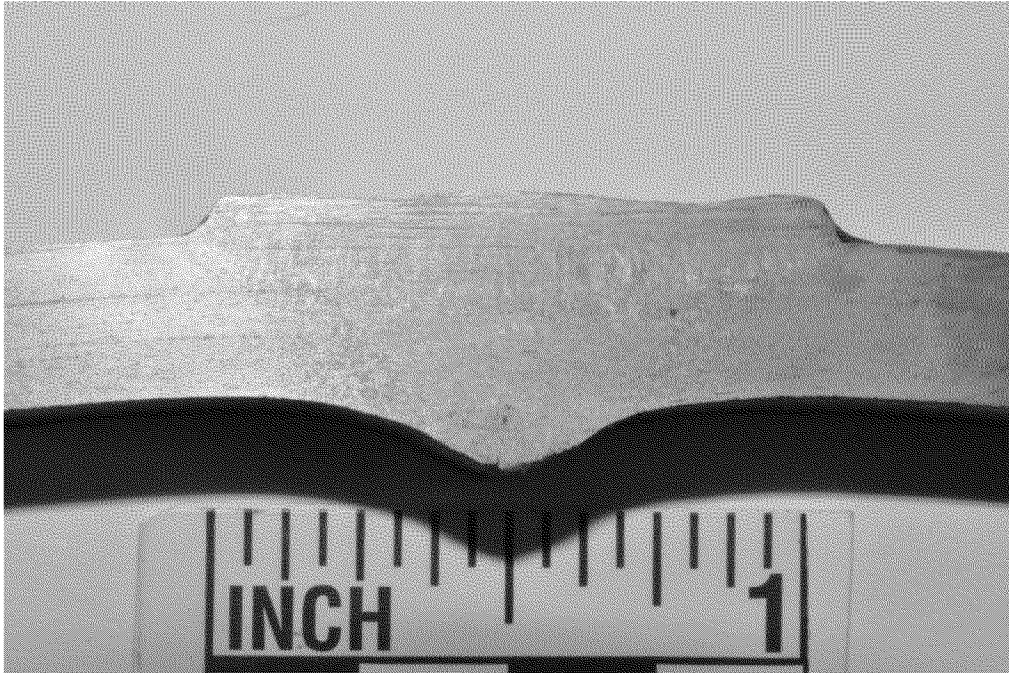


Photo #3

This testing was completed on August 19, 2013 and performed in accordance with the customer's authorization.

Submitted by:

Edward A. Foreman

Edward A. Foreman
Quality Manager

gj